

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PF030060	FOR FURTHER ACTION		See Form PCT/IPEA/416
International application No. PCT/EP2004/003863	International filing date (day/month/year) 13.04.2004	Priority date (day/month/year) 11.04.2003	
International Patent Classification (IPC) or national classification and IPC H04L29/06			
Applicant THOMSON LICENSING S.A. et al.			
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 5 sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input checked="" type="checkbox"/> sent to the applicant and to the International Bureau a total of 2 sheets, as follows:</p> <p><input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>			
<p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the opinion</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>			
Date of submission of the demand 11.02.2005		Date of completion of this report 31.03.2005	
Name and mailing address of the international preliminary examining authority:  European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016		Authorized Officer Olaechea, F Telephone No. +31 70 340-4352 	

**INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY**

International application No.
PCT/EP2004/003863

Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language , which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the **elements*** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):*

Description, Pages

1-13 as originally filed

Claims, Numbers

1-9 as amended (together with any statement) under Art. 19 PCT

Drawings, Sheets

1/11-11/11 as originally filed

☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages
- ☐ the claims, Nos.
- ☐ the drawings, sheets/figs
- ☐ the sequence listing (*specify*):
- ☐ any table(s) related to sequence listing (*specify*):

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages
- ☐ the claims, Nos.
- ☐ the drawings, sheets/figs
- ☐ the sequence listing (*specify*):
- ☐ any table(s) related to sequence listing (*specify*):

* If item 4 applies, some or all of these sheets may be marked "superseded."

**INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY**

International application No.
PCT/EP2004/003863

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	6-9
	No: Claims	1,-5
Inventive step (IS)	Yes: Claims	6-9
	No: Claims	1-5
Industrial applicability (IA)	Yes: Claims	1-9
	No: Claims	

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item V

**Reasoned statement with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement**

- 1 Reference is made to the following document:

D1: EP-A-1 102 430 (ERICSSON TELEFON AB L M) 23 May 2001
(2001-05-23)

- 2 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

- 2.1 The document D1 discloses (the references in parentheses applying to this document) in terms of claim 1:

Device adapted to belong to a community of networked devices, characterized in that said device contains:

a provable identity, id_x , and/or means for generating and/or obtaining a provable identity (paragraph 29);

means adapted to store information about devices of the community having trust relationships with said device (paragraph 30);

means adapted to store information about devices not trusted by said device (paragraph 35); and

means for trust relationships synchronization (paragraph 30 and 33-37).

Since all the features of claim 1 are known in combination from document D1, the subject-matter of claim 1 is not new (Article 33(2) PCT). Therefore, claim 1 is not allowable (Article 33(1) PCT).

- 2.2 None of the dependent claims 2-5 contain additional features which lead the subject-matter to be both new and inventive (see document D1 and the corresponding passages cited in the search report). Consequently, the subject-matter of claims 2-5 is not new (Article 33(2) PCT) or not inventive (Article 33(3) PCT).

**INTERNATIONAL PRELIMINARY
REPORT ON PATENTABILITY
(SEPARATE SHEET)**

International application No.

PCT/EP2004/003863

- 3 The combination of the features of dependent claims 6-9 is neither known from, nor rendered obvious by, the available prior art. Therefore, they meet the requirements of the PCT with respect to novelty, inventiveness and industrial applicability (Articles 33(2), (3) and (4) PCT).

CLAIMS

1. Device adapted to belong to a community of networked devices,
5 characterized in that said device (x) contains:

a provable identity (id_x) and / or means for generating and / or
obtaining a provable identity;

means (12) adapted to store information about devices of the
community having trust relationships with said device (x);

10 means (12) adapted to store information about devices not trusted by
said device (x); and

means for trust relationships synchronization.

2. Device according to claim 1, wherein said means for storing
15 information about devices not trusted by said device (x) contain information
about devices of the community having had trust relationships with said device
(x) in the past but not having anymore.

3. Device according to one of claims 1 or 2, wherein the information
20 about devices contains the provable identity (id_j) of said devices.

4. Device according to one of claims 1, 2 or 3, wherein said device
(x) is furthermore designed to store proofs ($S_j(id_x)$) received from other devices
(j) of the community that said device (x) is trusted by other devices (j).
25

5. Device according to one of the preceding claims, wherein said
means for trust relationship synchronization comprise means to exchange
information with other devices of the community about devices trusted and / or
not trusted by other devices of the community.
30

6. Device according to one of the preceding claims, wherein said
device (x) contains:

a first object ($MT(x)$) capable of containing identities of devices
trusted by said device (x) and trusting said device (x);

35 a second object ($UT(x)$) capable of containing identities of devices
trusted by said device (x); and

a third object ($DT(x)$) capable of containing identities of devices
distrusted by said device (x).

7. Device according to claim 6 in combination with claim 5, wherein
said device is able to modify the content of said first object (MT(x)) and / or said
second object (UT(x)) and / or said third object (DT(x)) as a function of
5 information exchanged with other devices of the community.

8. Device according to claim 5, wherein said first object (MT(x)) and /
or said second object (UT(x)) and / or said third object (DT(x)) are furthermore
able to contain cryptographic material.
10

9. Device according to one of claims 6 or 7, wherein said first device
(x) is furthermore able to banish another device (y) of said community if the
identity (id_y) of said device (y) to be banished is contained in the first (MT(x)) or
the second object (UT(x)) of said first device (x), said banish operation
15 consisting in removing the identity (id_y) of said device (y) to be banished from
said first (MT(x)) or second object (UT(x)) and inserting said identity (id_y) in said
third object (DT(x)) of said first device (x).